	Application No.	Applicant(s)
Nation of Allowahilitie	10/678,694	AFZAL ET AL.
Notice of Allowability	Examiner	Art Unit
	James A. Menefee	2828
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 6/5/2006</u> .		
2. The allowed claim(s) is/are <u>1-13,25-34 and 36-41</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5 🗖 🗓 (1 () 1 🖰	
1. Notice of References Cited (PTO-892)		atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary Paper No./Mail Dat	e
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	_	nt of Reasons for Allowance
	9.	

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DETAILED ACTION

Response to Amendment

By amendment filed 6/5/2006, claims 1-3, 25, and 38 are amended and claims 39-41 added. Claims 1-13, 25-34, and 36-41 are pending.

Allowable Subject Matter

Claims 1-13, 25-34, and 36-41 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, there is not taught or disclosed in the prior art a freestanding solidstate laser composite structure comprising a gain medium and a Q-switch, where end faces of the composite structure form a linear optical path cavity therebetween, the gain medium having a side for receiving pump light.

Note that the added freestanding limitation overcomes the prior rejections based on the Ashby patent (US 5,463,649). The monolithically integrated device cannot be considered freestanding.

Note too that the claim does not cover zig-zag type lasers, as was clarified earlier in prosecution with respect to the Peterson patent (US 6,377,593). Such lasers have a zig-zag optical path, as opposed to a linear optical path.

Finally, the side-pumped nature of this claim is also important, as this distinguishes from the admitted prior art as described by applicant in the specification.

Regarding claim 25, there is not taught or disclosed in the prior art a solid-state laser comprising a composite structure having two surfaces forming an optical path therebetween,

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where at least on surface is adapted to compensate for thermal aberration induced by a unidirectional thermal gradient. That is, the claim is allowed primarily due to the limitation added by amendment. The examiner agrees with applicants remarks in the prior response as to why the art of record does not meet this limitation.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Menefee whose telephone number is (571) 272-1944.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MinSun Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. For more information about the PAIR system, see http://pair-direct.uspto.gov.

James Menefee August 23, 2006

JAMES MENEFEE
PRIMARY EXAMINER